

FIG. 1

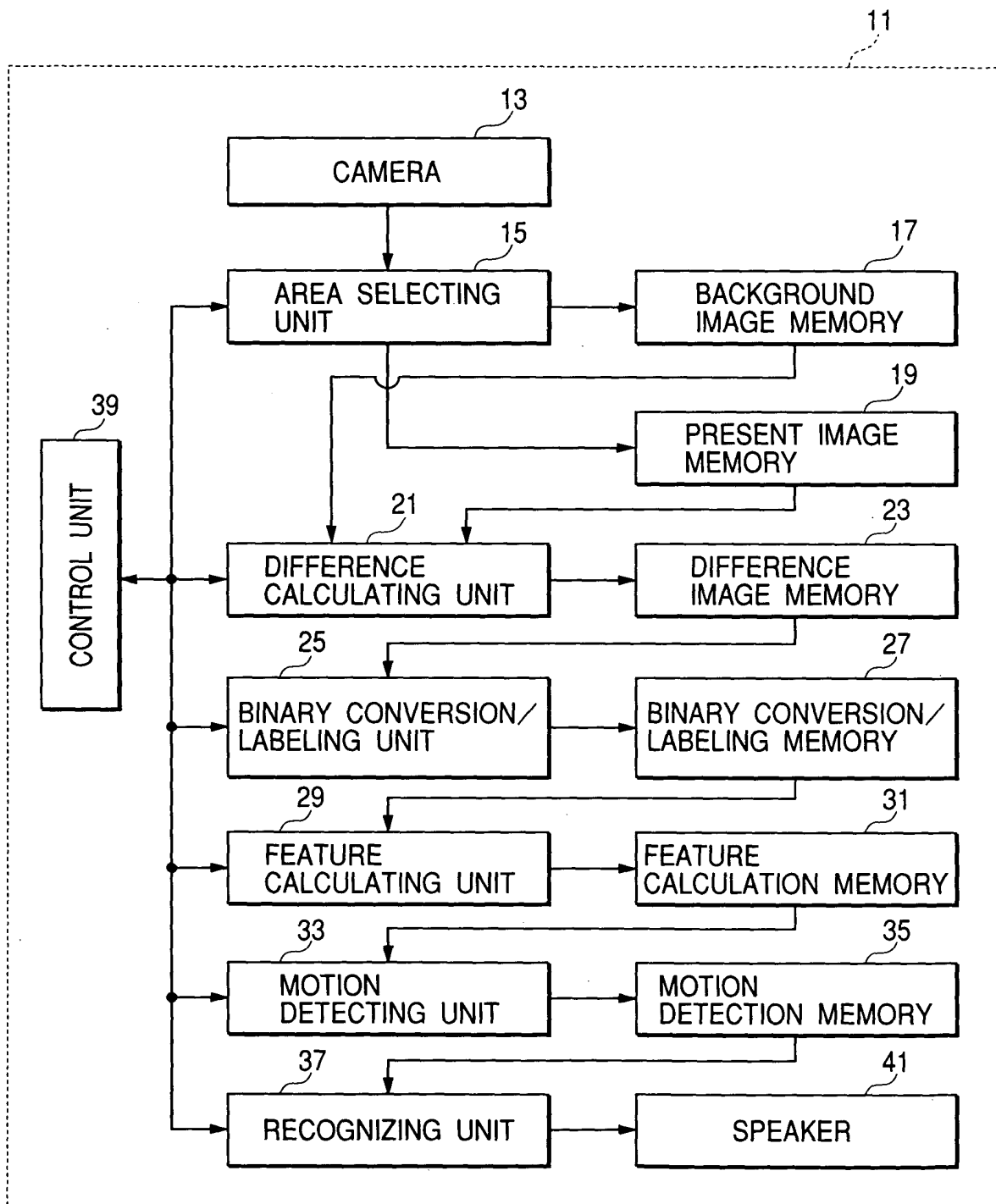
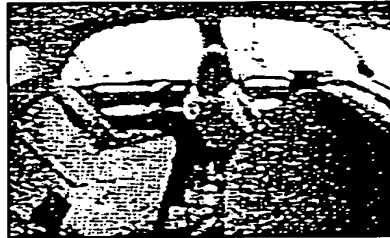
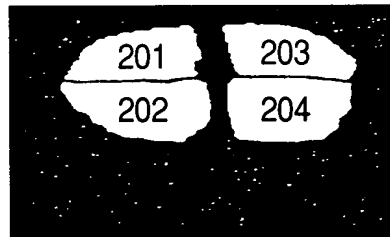


FIG. 2A



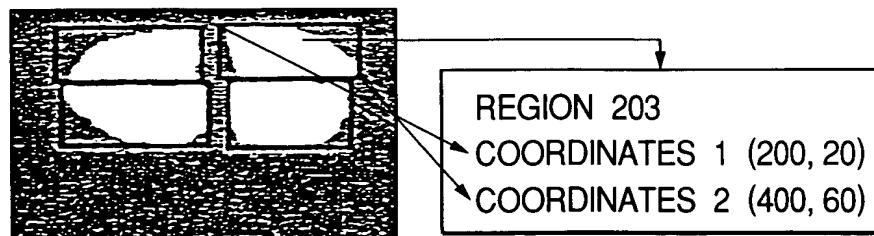
PICKUP IMAGE

FIG. 2B



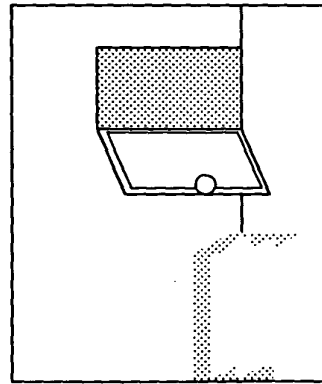
MONITORING REGION
DATABASE

FIG. 2C



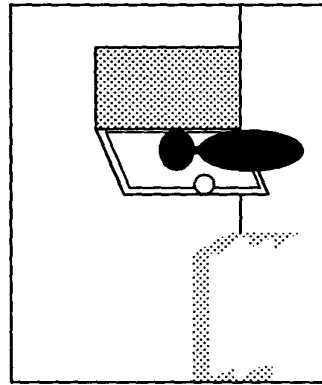
MONITORING REGION
BOUNDARY LINE
INFORMATION

FIG. 3A



BACKGROUND
IMAGE

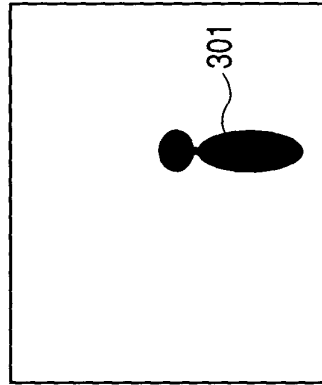
FIG. 3B



PRESENT
IMAGE

-

=

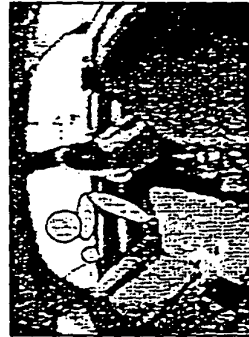


DIFFERENCE
IMAGE

FIG. 4A FIG. 4B FIG. 4C



BACKGROUND IMAGE



PRESENT IMAGE

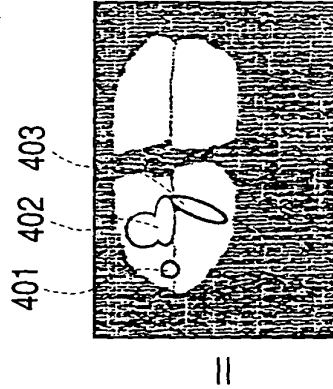


IMAGE AFTER BINARY
CONVERSION/LABELING

FIG. 5A

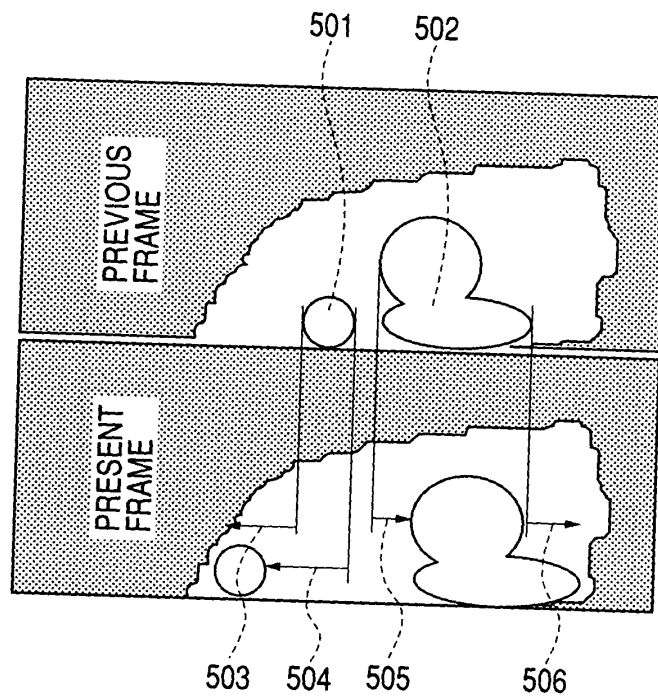


FIG. 5B

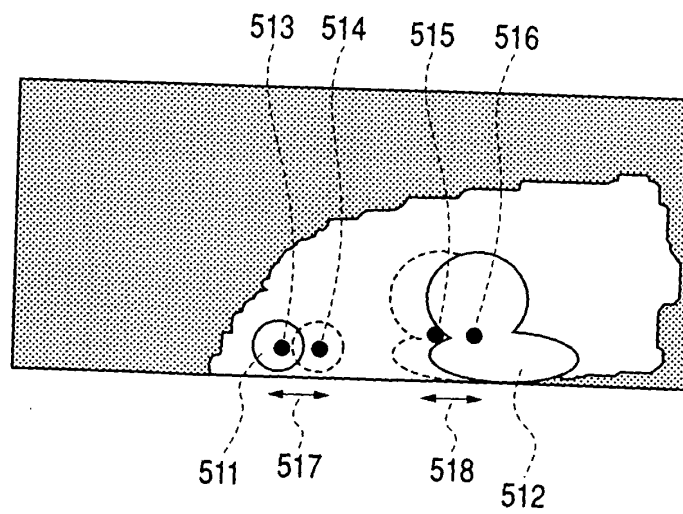


FIG. 6

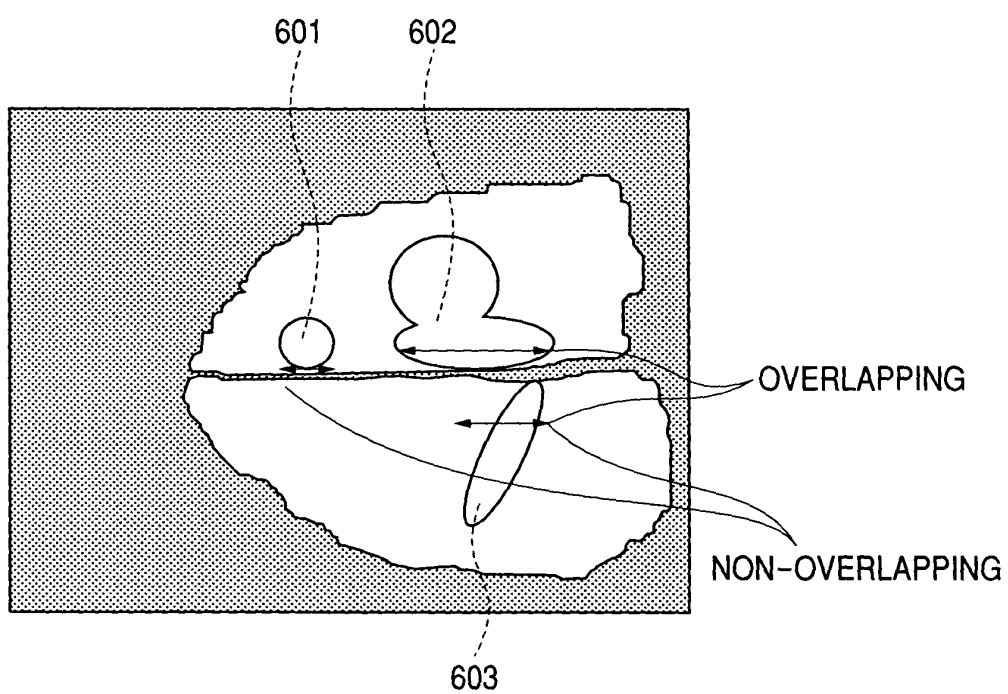


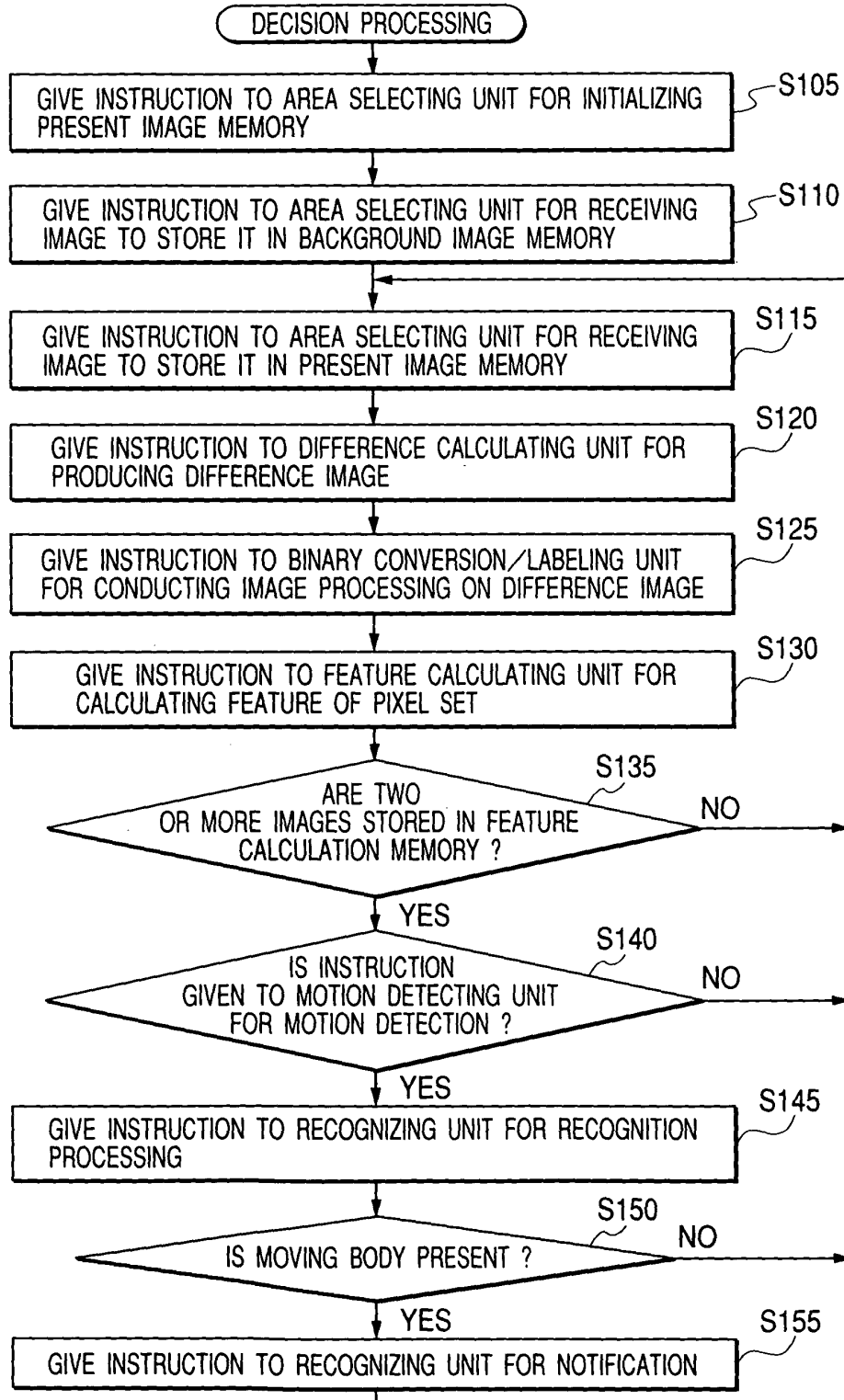
FIG. 7

FIG. 8

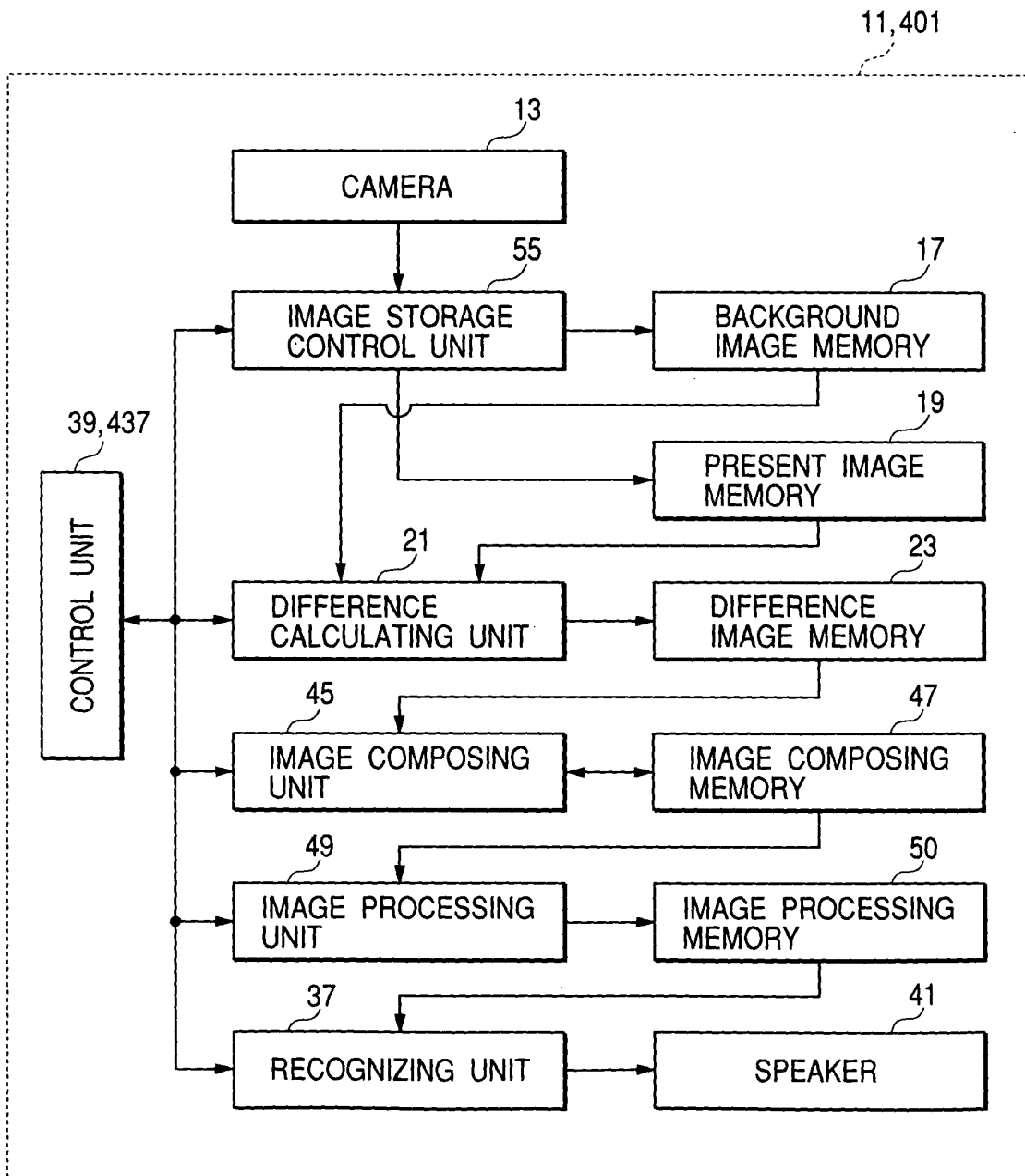


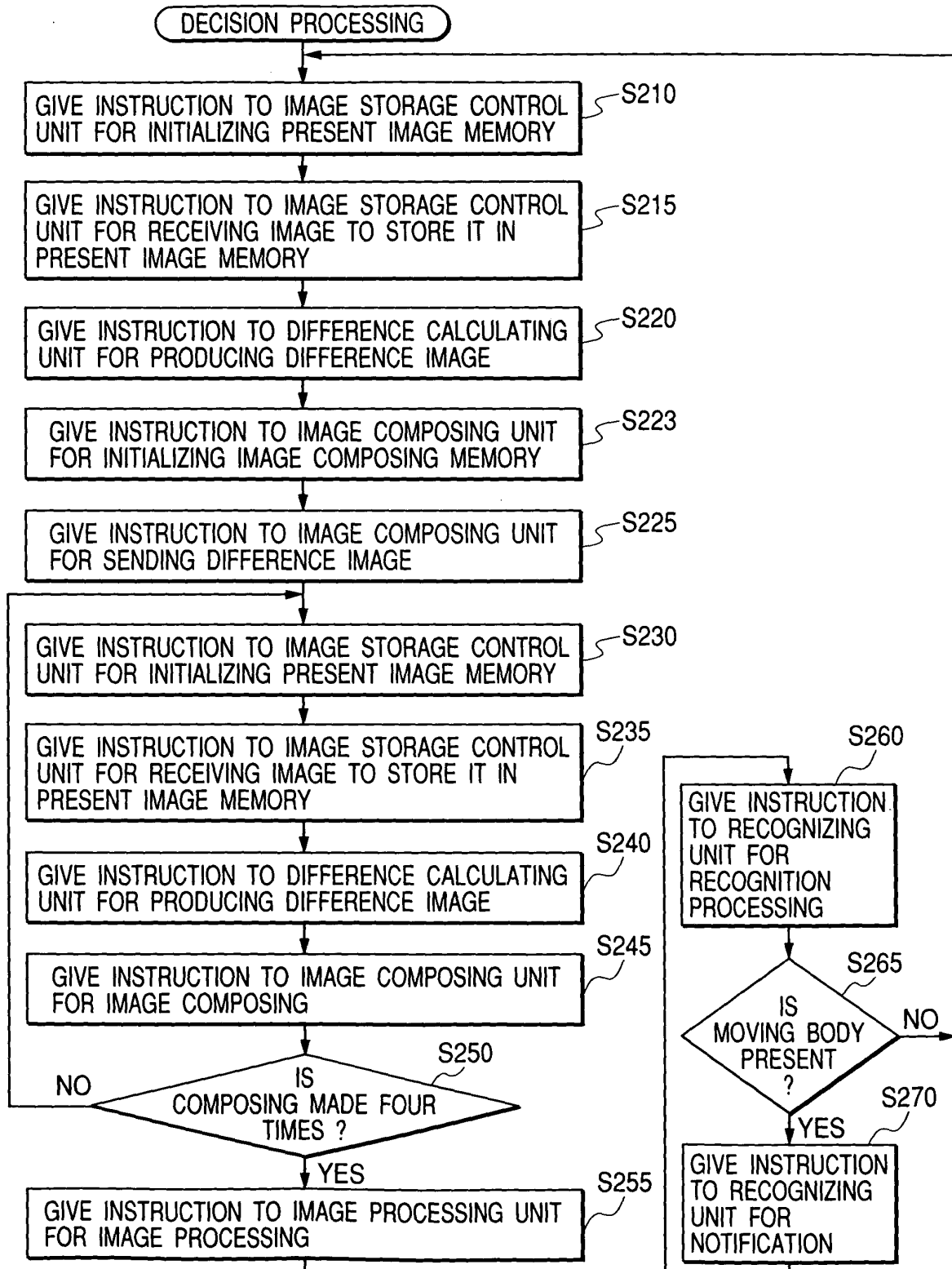
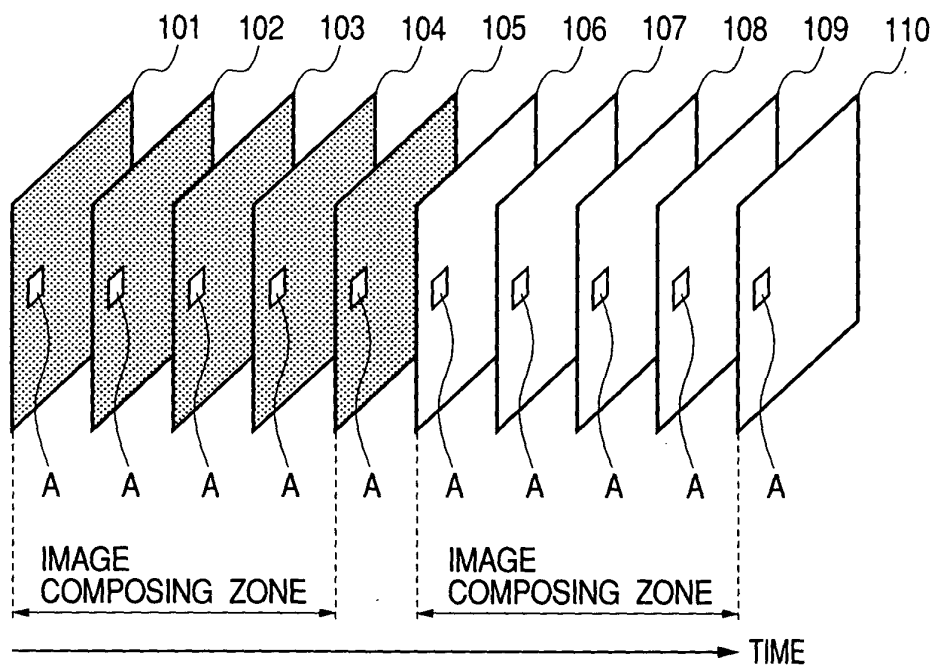
FIG. 9

FIG. 10A**FIG. 10B**

PIXEL VALUE OF PIXEL A

| IMAGE | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PIXEL VALUE | 25 | 15 | 37 | 98 | 65 | 105 | 107 | 75 | 54 | 60 |

MAXIMUM PIXEL VALUE 98

FIG. 11

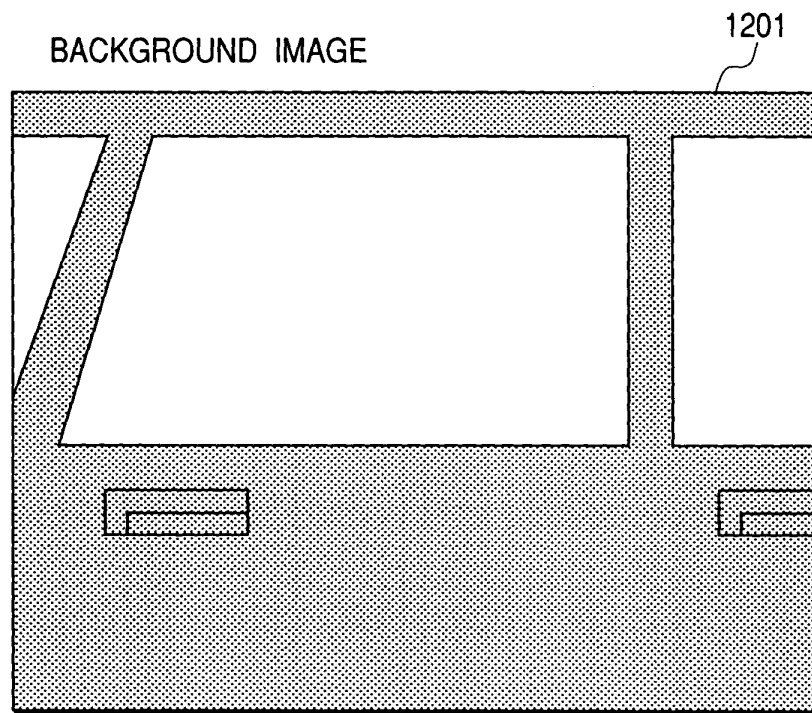


FIG. 12A

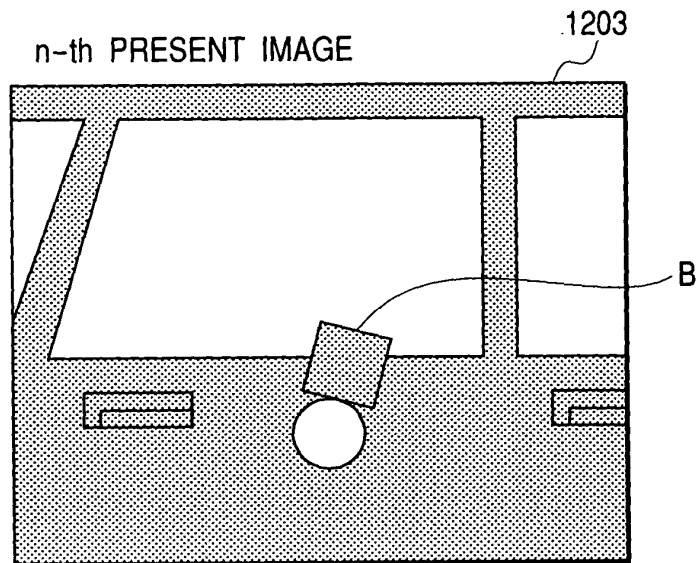


FIG. 12B

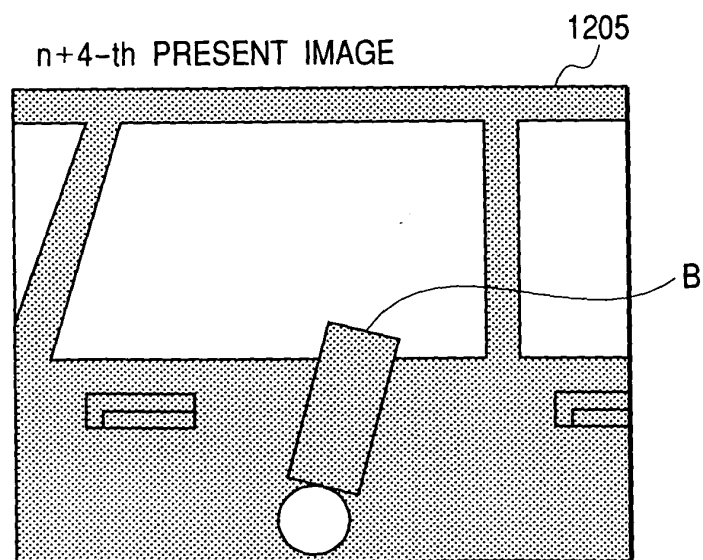


FIG. 13A

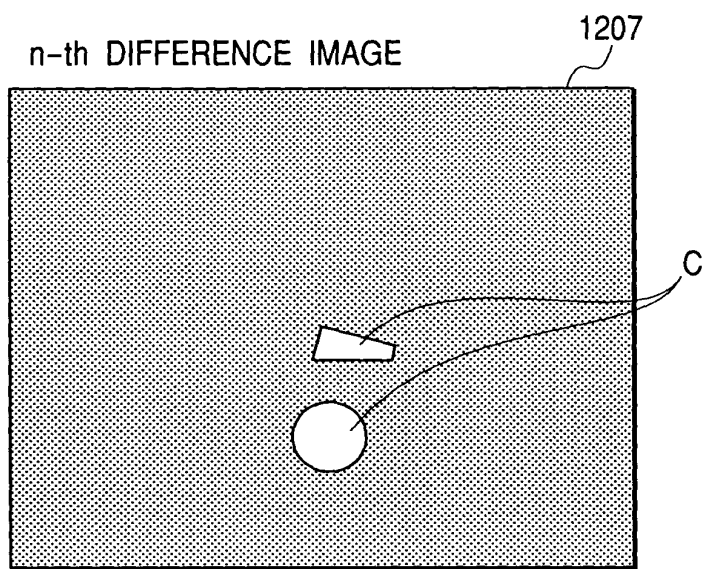


FIG. 13B

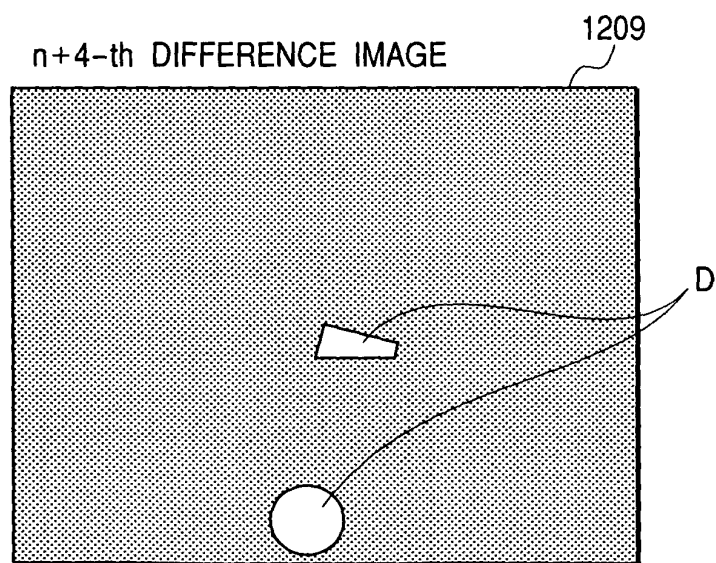


FIG. 14

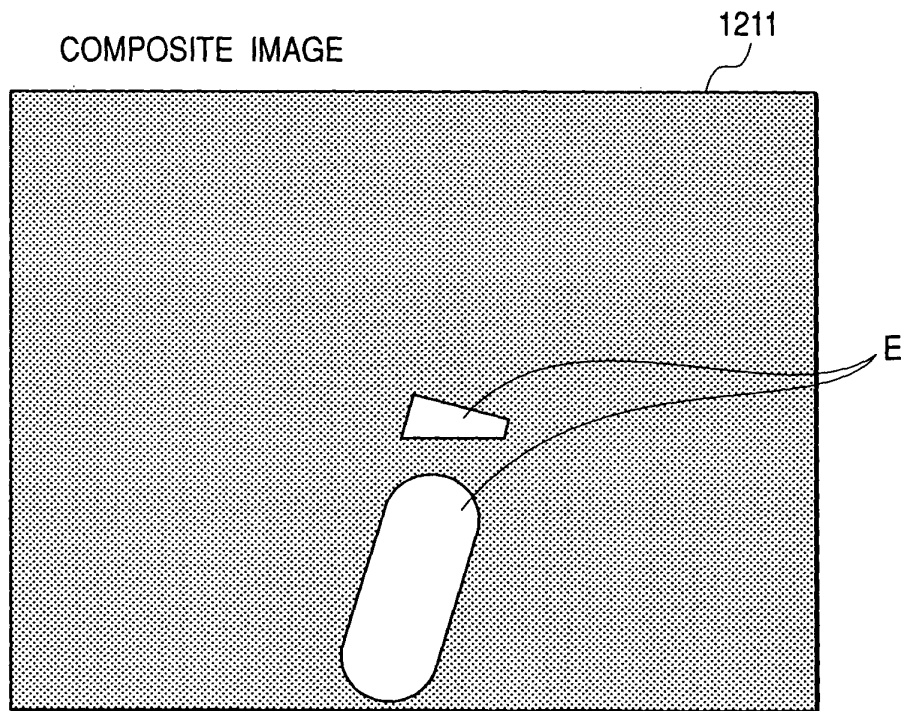


FIG. 15

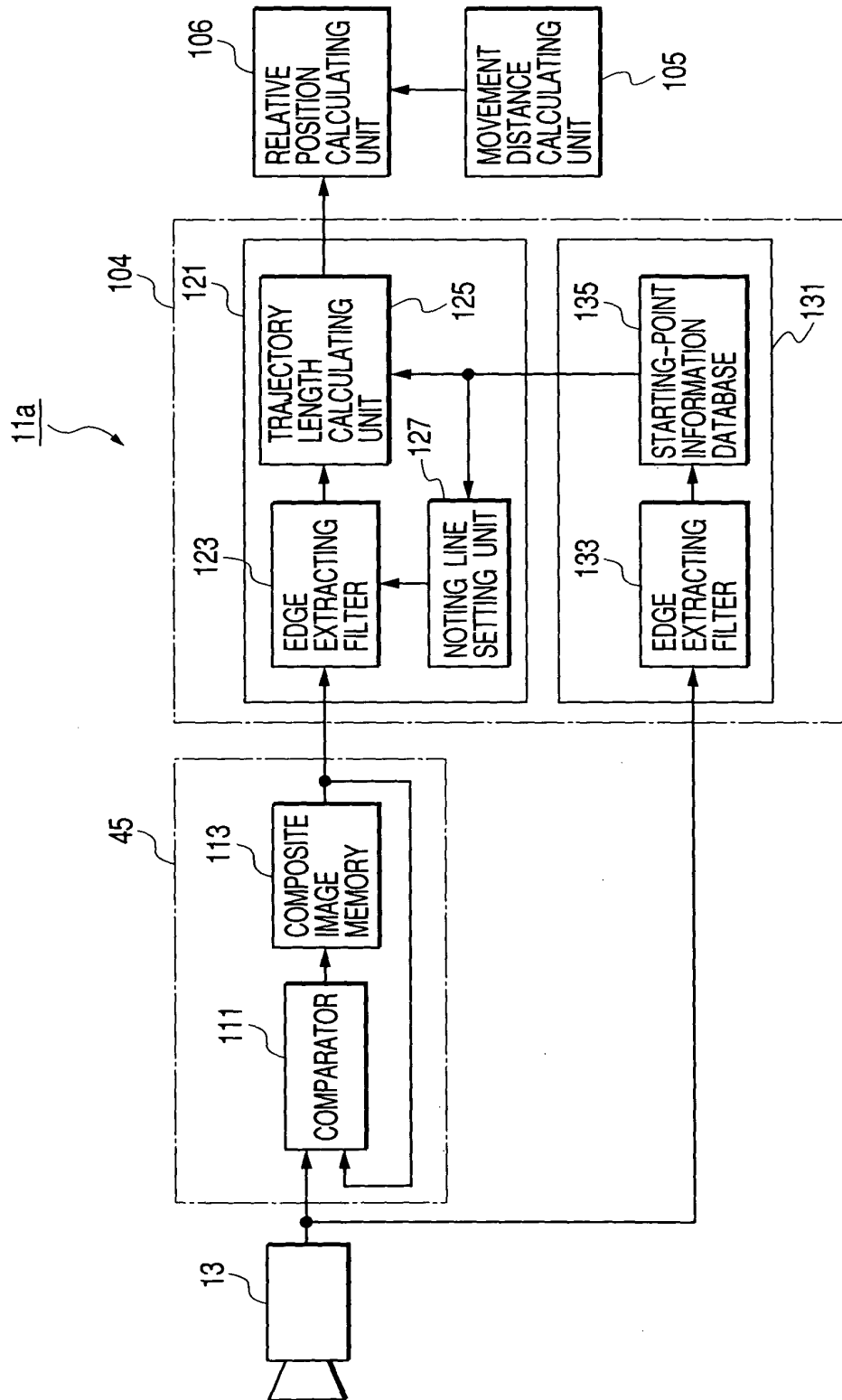


FIG. 16A

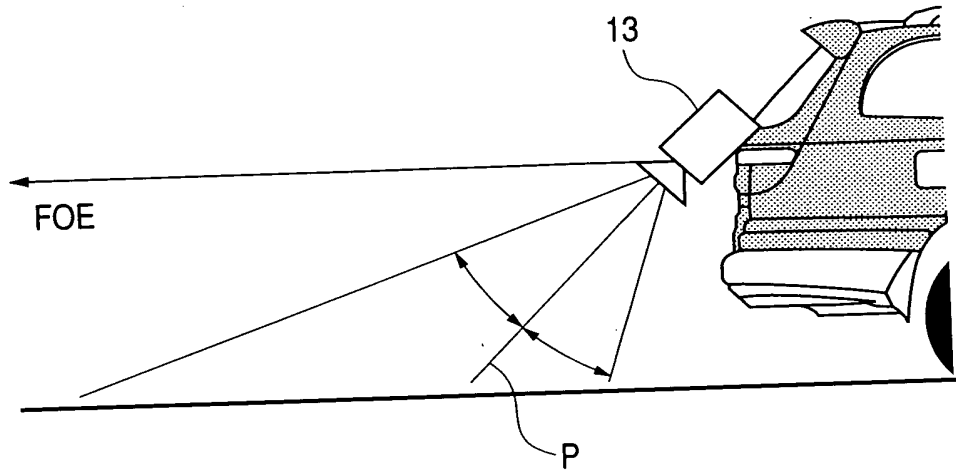


FIG. 16B

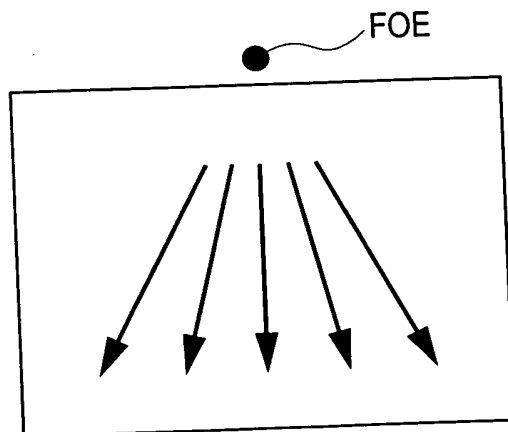
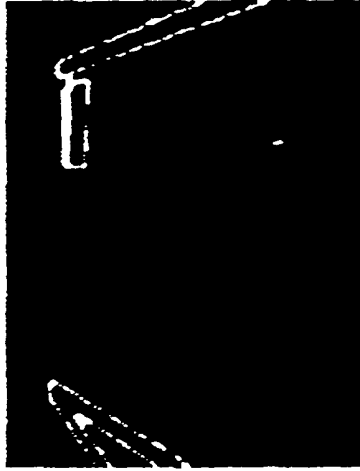


FIG. 17B



STARTING POINT
INFORMATION

FIG. 17A



INPUT IMAGE AT START
OF IMAGE COMPOSING

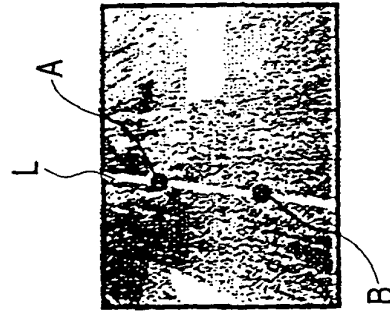
EDGE
EXTRACTION

FIG. 18A



INPUT IMAGE

FIG. 18B



COMPOSITE IMAGE

IMAGE
COMPOSING

TRAJECTORY
EXTRACTION

FIG. 18C

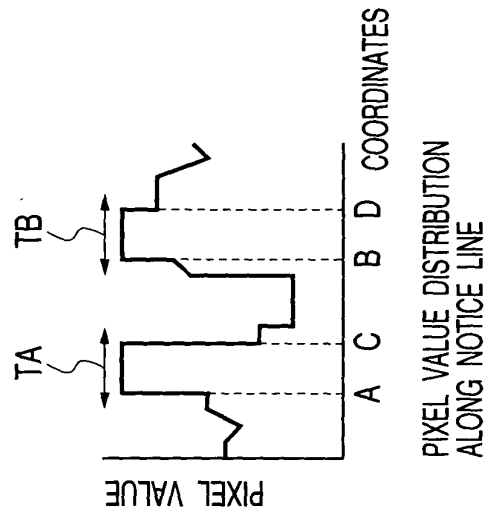


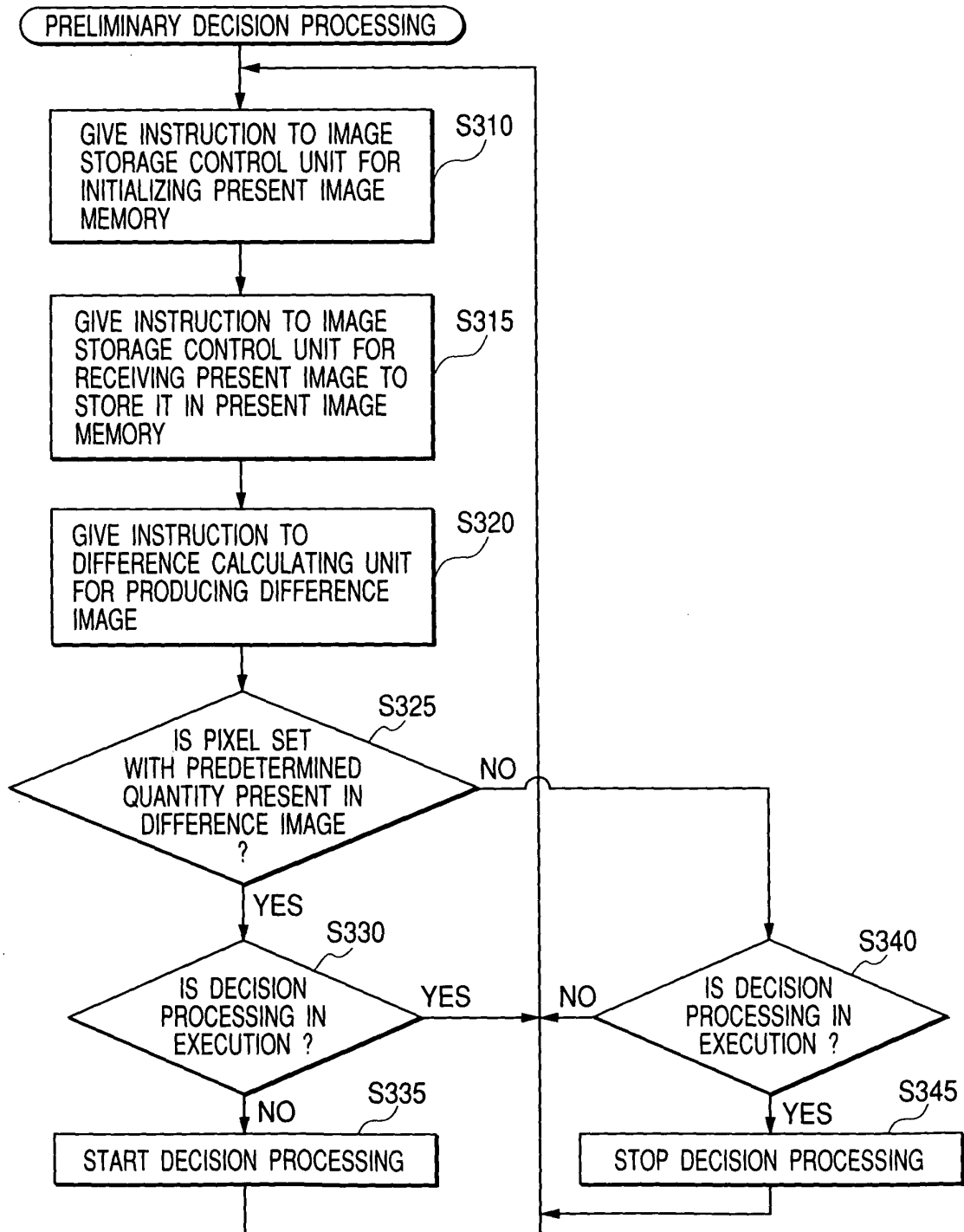
FIG. 19

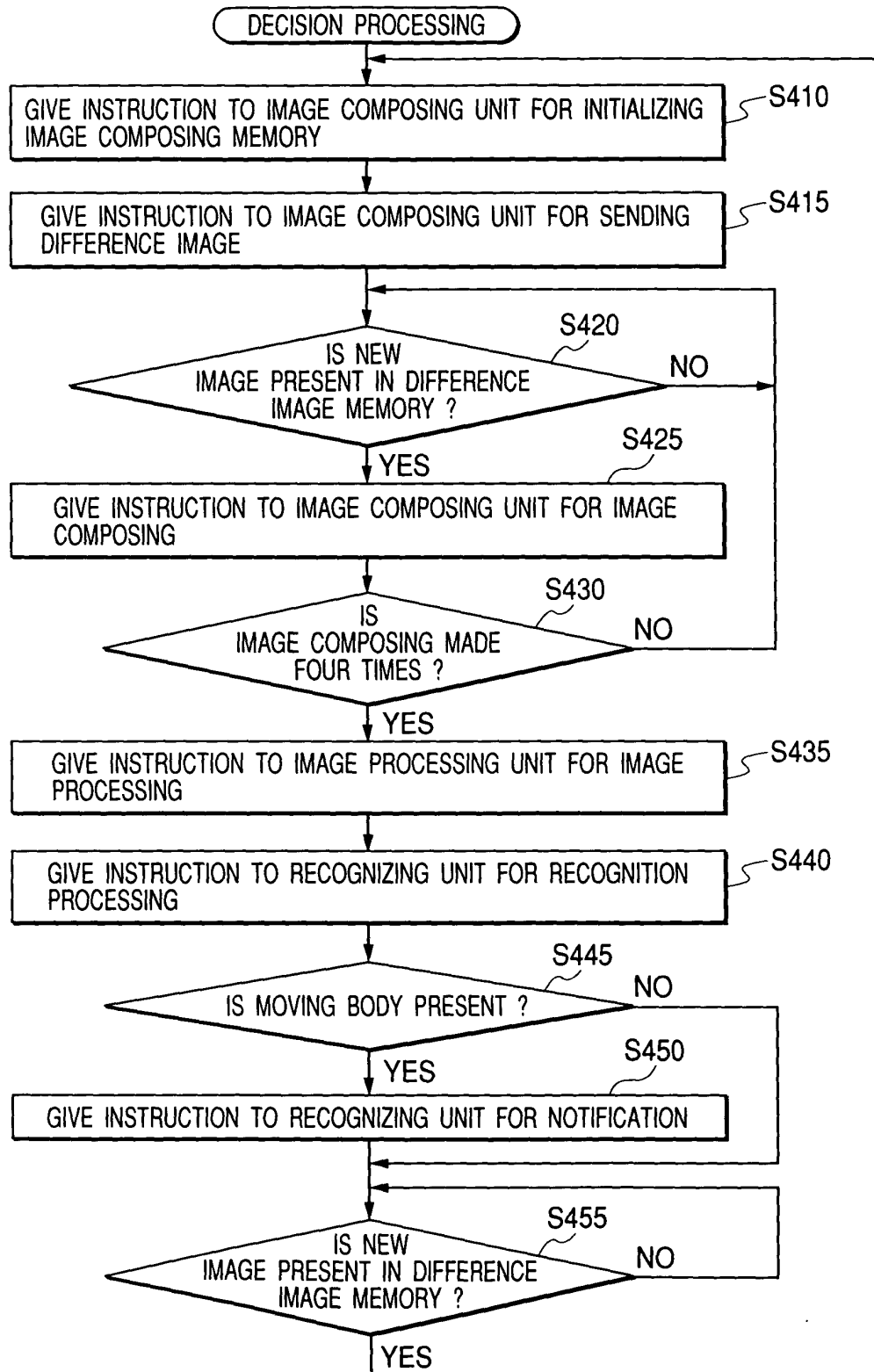
FIG. 20

FIG. 21

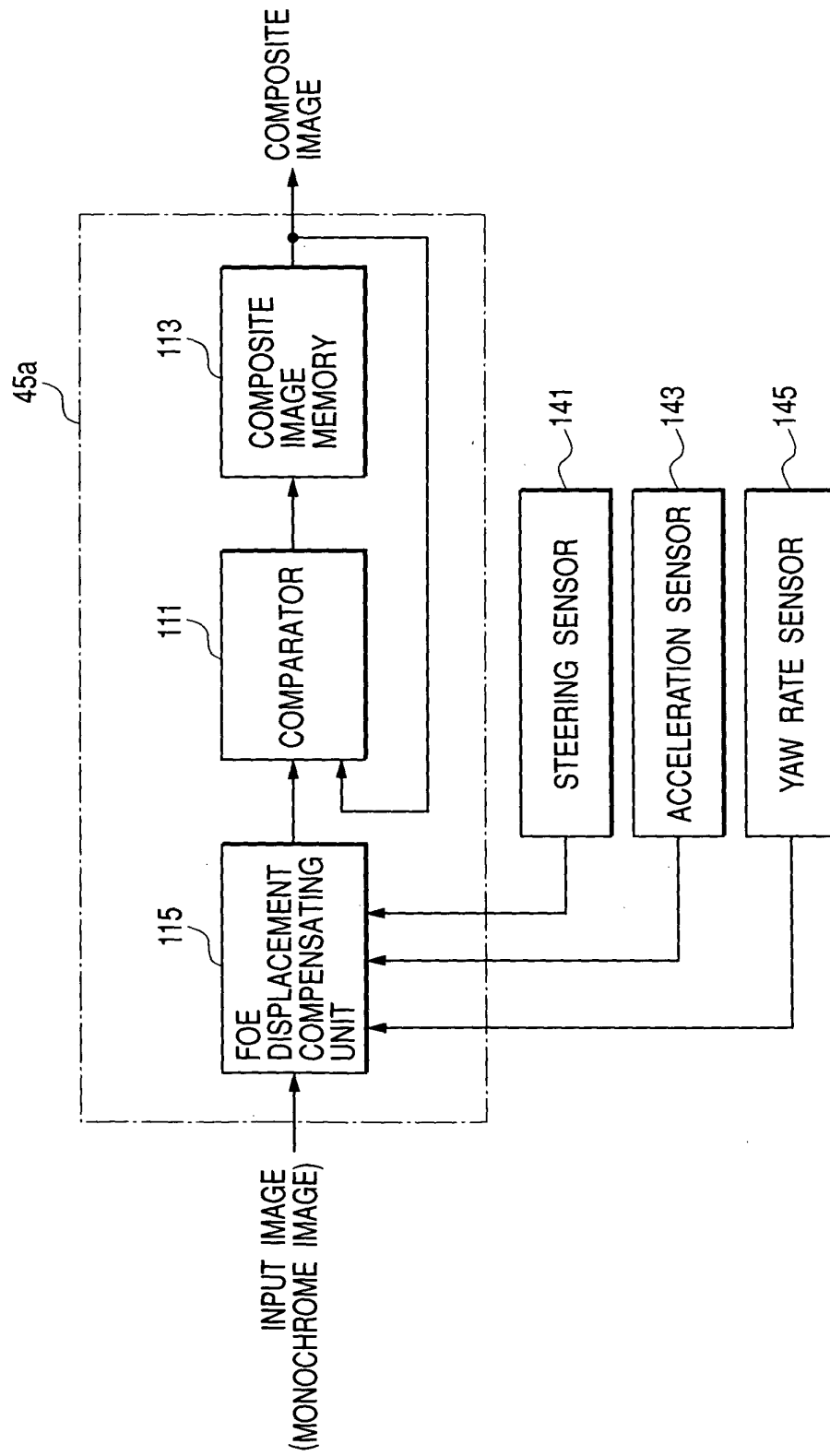


FIG. 22A

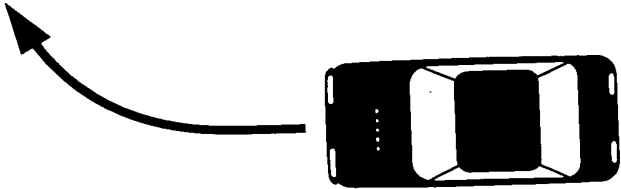


FIG. 22B

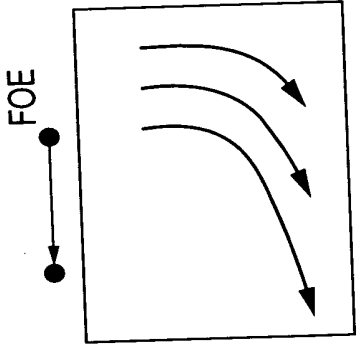


FIG. 22C

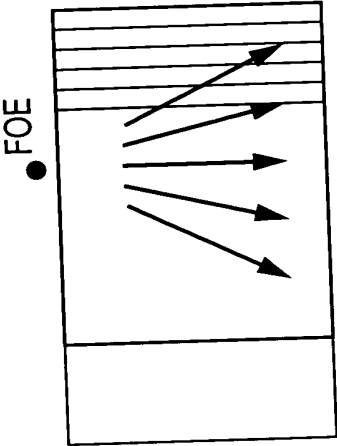


FIG. 23B

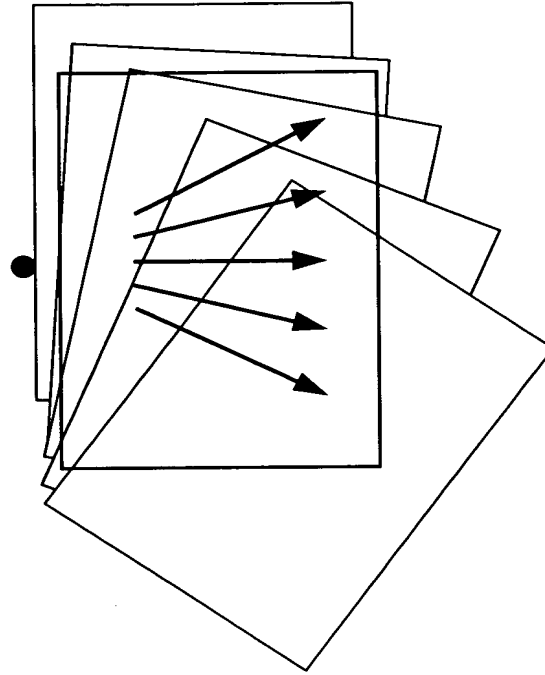


FIG. 23A

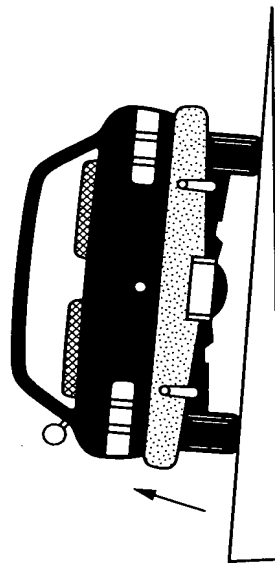


FIG. 24A

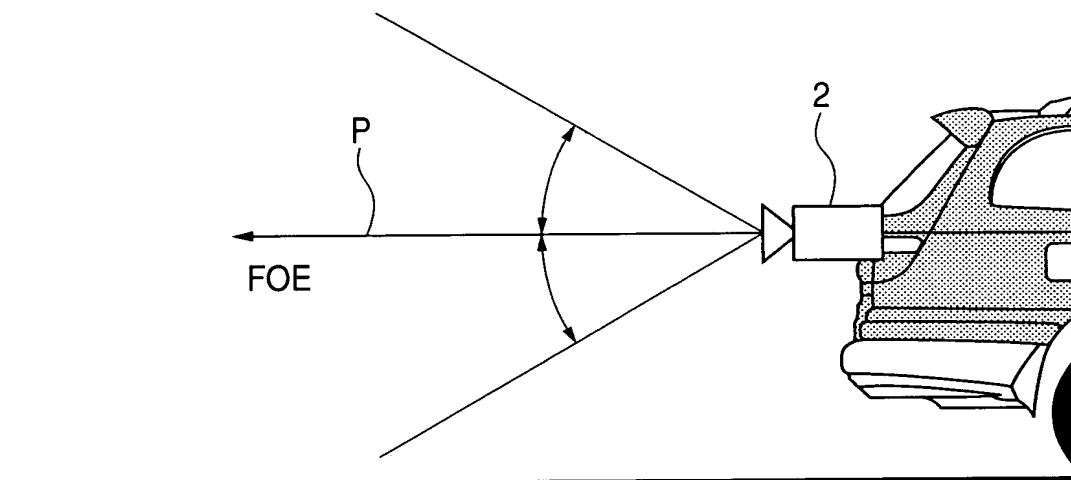


FIG. 24B

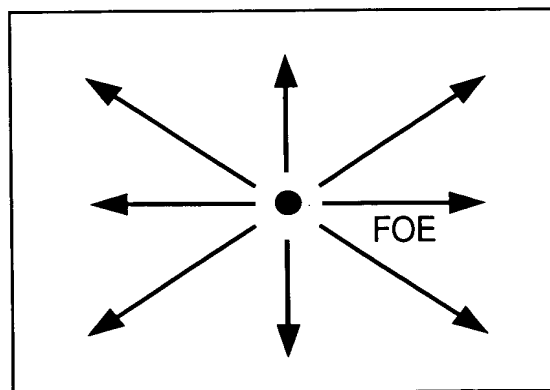


FIG. 25A

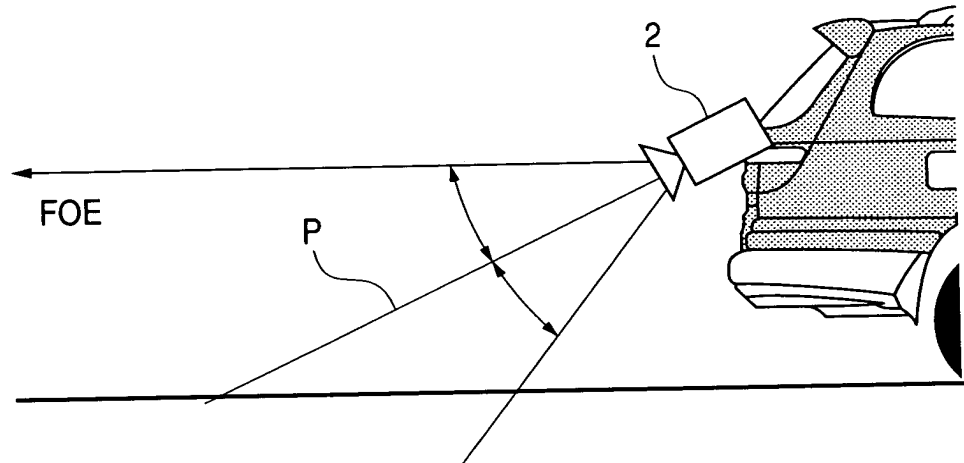


FIG. 25B

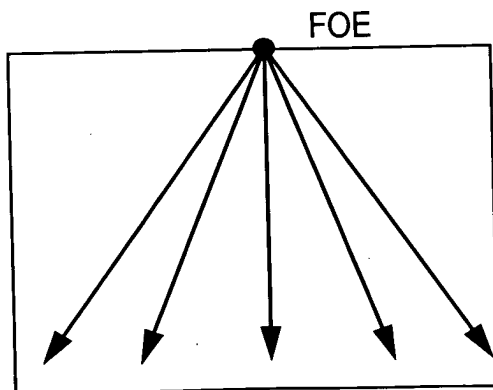


FIG. 25C

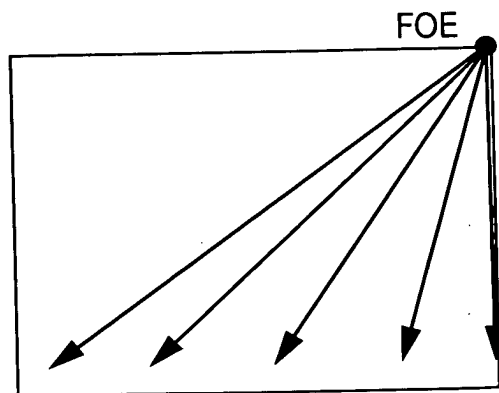


FIG. 26A

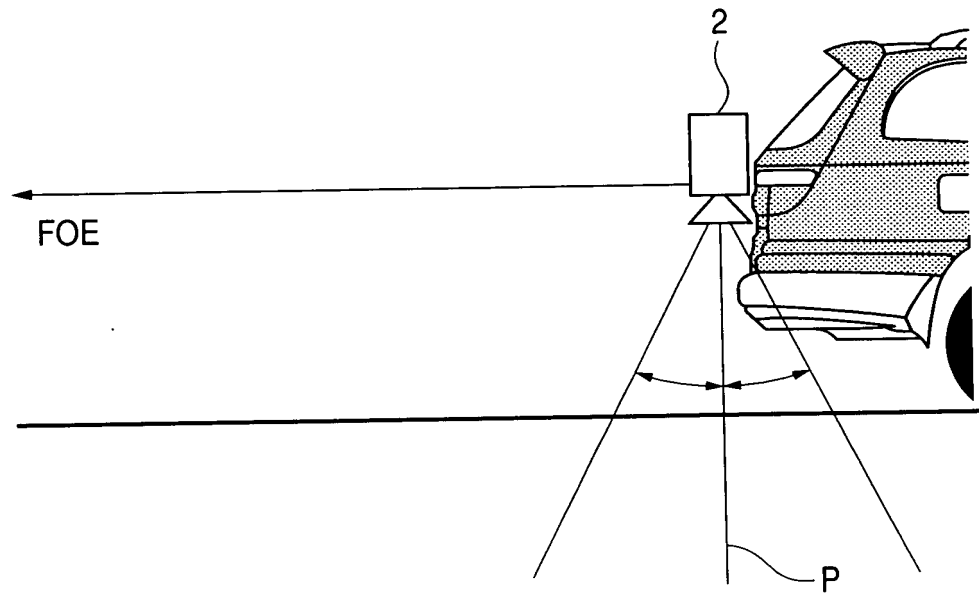
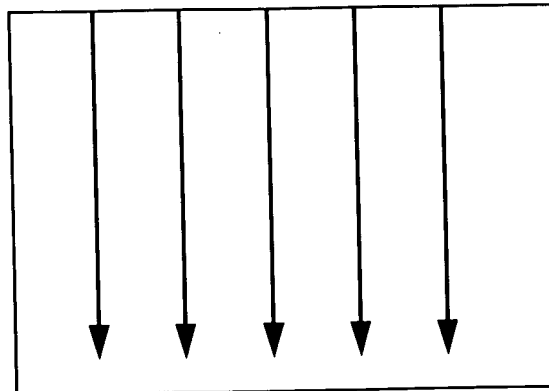
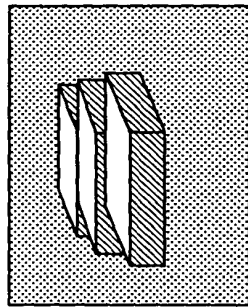


FIG. 26B





↑
IMAGE
COMPOSING

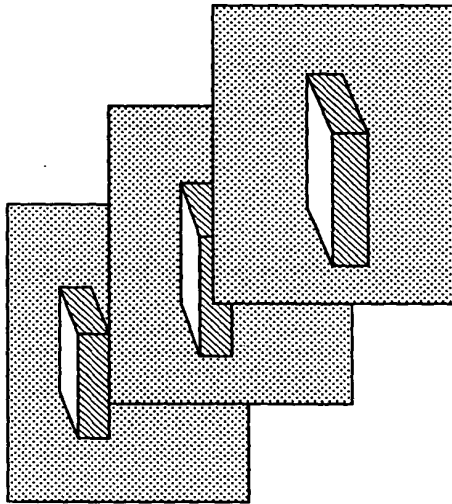
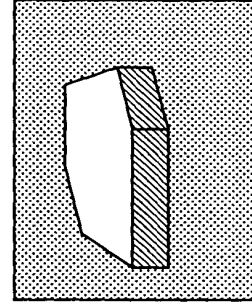


FIG. 27A



↑
IMAGE
COMPOSING

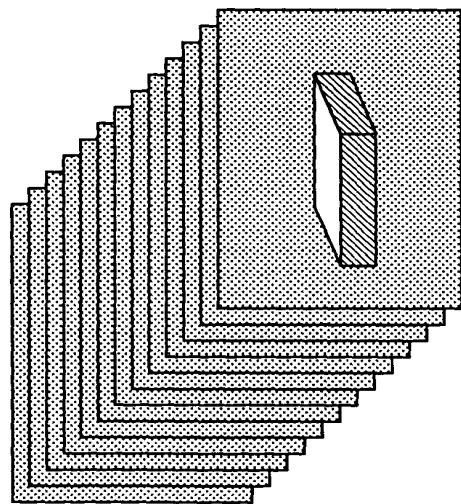


FIG. 27B

FIG. 28B

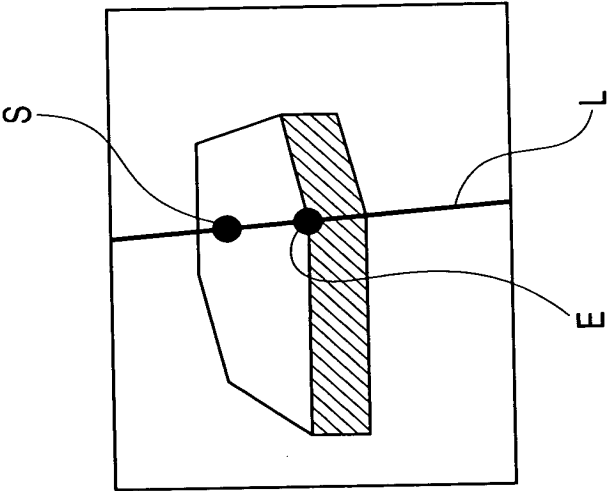


IMAGE
COMPOSING

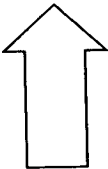


FIG. 28A

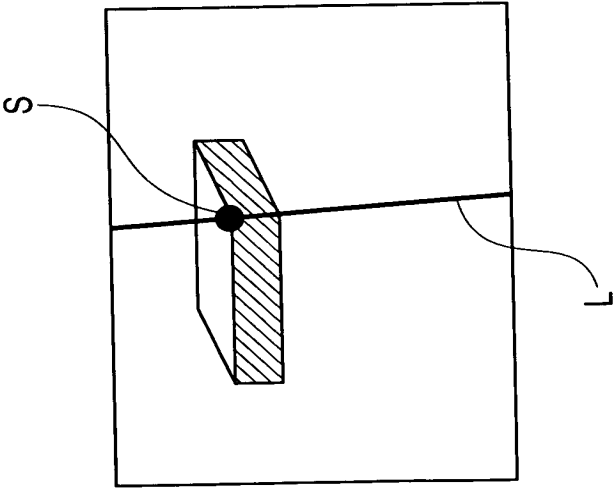


FIG. 29
PRIOR ART

